

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**Carlsbad Field Office****OCD Hobbs****HOBBS OCD**5. Lease Serial No.
NMLC062269A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
GHOST RIDER 22-15 FEDERAL COM 206H9. API Well No.
30-025-45773-00-X110. Field and Pool or Exploratory Area
WILDCAT BONE SPRING11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

OCT 22 2019

RECEIVED

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
APACHE CORPORATIONContact: SORINA L FLORES
E-Mail: sorina.flores@apachecorp.com3a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432.818.1167
Fx: 432.818.11674. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 22 T24S R32E SESW 442FSL 2226FWL
32.197010 N Lat, 103.663872 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

NMB000736

5/16/19: Notify BLM(John Staton) of spud, Spud well, TD 17-1/2" surf hole @ 1052', set 13-3/8" 54.5# J55 BTC csg @ 1052', cmt w/LEAD: 600sx CI C w/4% gel, 0.4% defoamer(1.72yld,13.5ppg).TAIL: 300sx CI C (1.33yld,14.8ppg), Circ 281sx to surf, WOC 8 hrs, RR spudder rig 5/18/19.

7/2/19: Notify BLM(Pat McKelvey)of drillout of surf csg, Notify BLM(Kristie Pruite) of BOP test, test csg 1500psi/30min - OK, Drill 12-14" Interm hole f/1078'-4846'

7/5/19: TD 12-1/4" interm hole @ 4846', set 9-5/8" 40# J-55 BTC @ 4846', FC @ 4798', FS @ 4846', Cmt 1st stage LEAD w/900sx CI C w/10% salt, 6% gel, 1% MgOx-M, 0.3 retarder (2.32yld,12.7ppg) TAIL: 300sx CI C w/0.2% retarder (1.33yld,14.8ppg), Circ 225sx to surf, WOC per BLM, Notify BLM(Pat

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #487089 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/09/2019 (20PP0083SE)

Name (Printed/Typed) SORINA L FLORES

Title SUPV DRLG SERVICES

Signature (Electronic Submission)

Date 10/08/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Accepted for RecordOCT 09 2019
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Jonathon Shepard
Carlsbad Field Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #487089 that would not fit on the form

32. Additional remarks, continued

McKelvey) of BOP test, Test csg 1500psi/30min - test OK.

7/7/19: Drill 8-3/4" interm vertical hole to 10490', drill 8-3/4" curve f/10490-11259', drill 8-1/2" prod lateral f/11259-18591'.

7/20/19: TD 8-1/2" prod lateral 18591', Notify BLM(John) of csg/cmt job, set 5-1/2" 20# CYP-110 GBCD @ 18591', FS @ 18591', FC @ 18540', Toe sleeve @ 18491', MJ @ 17464', MJ @ 10385', cmt 1st stage LEAD w/ 740sx Nine Lite w/5% B52, 0.3% CPT30, 0.2% D3, 0.2% GXT, 0.2% CPT-45, 0.15% retarder, 0.15% citric acid(2.86yld,10.5ppg), 2nd stage LEAD: ~~365sx~~ 1715sx Nine lite w/3% salt, 1% MgOx-M, 0.15% fluid loss, 0.15% suspension aid, 0.4% retarder(2.21yld, 11.5ppg), TAIL: 1715sx Nine lite, w/1.3% salt, 5% expanding agent, 0.5% fluid loss, 0.1% anti-settling agen, 0.45% retarder, 0.2% dispersant, 0.4% defoamer (1.43yld,13.2ppg), full returns whil pmp cmt until 250bbls into displacement, no cmt circ to surf, held 2450psi/5min, floats held, WOC, shut well w/annular, monitor csg pressure, 0psi, ND BOP w/ Battle Energy, install 11" well cap, well secured & RR 7/24/19.

8/20/19: Remove well cap, RU WL, run bod log to 9000', pressure csg to 1000psi & log out, TOC @ 6300', RU nine energy, 1000psi on 5-1/2" csg, test lines to 3000psi, pmp 1600sx Cl H w/0.2% retarder(1.18yld, 15.6ppg), csg psi @ 1000psi, RD & RR 8/20/19.



5D Survey Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*

Site Name: *Ghost Rider Pad 3S*

Well Name: *Ghost Rider 22-15 Fed Com 206H*

File number: *13841025*

Survey: *Definitive survey*

22 July 2019





Ghost Rider 22-15 Fed Com 206H

Field Name:	Map Units: US ft Vertical Reference Datum (VRD): Mean Sea Level Projected Coordinate System: NAD83 / New Mexico East (ftUS) Comment:	Company Name: Apache Corporation
Apache NM (Nad 83 NMEZ)		

Site:	Units: US ft Position:	North Reference: Grid Northing: 435975.40 US ft Easting: 748254.10 US ft	Convergence Angle: 0.36 Latitude: 32.196804379 Longitude: -103.664408574
Ghost Rider Pad 3S	Elevation above MSL: 3592.00 US ft Comment: Lea Co, NM		

Slot:	Position (Relative to Site Centre)		
Ghost Rider 22-15 Fed Com 206H	+N/-S: 76.20 US ft +E/-W: 164.50 US ft	Northing: 436051.60 US ft Easting: 748418.60 US ft	Latitude: 32.197011018 Longitude: -103.663875272
	Slot TVD Reference: Ground Elevation Elevation above MSL: 3594.00 US ft Comment:		

Well:	Type: Main well File Number: 13841025 Closure Distance: 7439.01 US ft Vertical Section:	UWI: Comment: H&P 482 Closure Azimuth: 355.21° Position of Origin (Relative to Slot centre) +N/-S: -0.00 US ft +E/-W: 0.00 US ft Az: 355.23°
Ghost Rider 22-15 Fed Com 206H		

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3620.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 28/Jun/2018	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
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Magnetic Model:

Model Name: Surcon IFR	Date: 04/Jul/2019	Field Strength: 47865.0 nT	Declination: 6.78° Dip: 59.88°
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Tie Point:

MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: -0.00 US ft	East Offset: 0.00 US ft
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5D Survey Report

Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
VES GyroFlex V3	0.00	10324.00	VES Gyros
MWD + IFR + MS	10324.00	10824.00	WFT MWD 04
MWD + IFR + MS	10824.00	11202.00	WFT MWD 06
MWD + IFR + Sag Corr + MS	11202.00	18591.00	WFT MWD 07

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)
13 3/8 in	1078.00	0.65	109.78	1077.95	4.56	-4.87	436056.16	748413.73
9 5/8 in	4810.00	0.81	193.70	4809.66	-10.15	-3.79	436041.45	748414.81

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	436051.60	748418.60	
148.24	0.26	317.54	148.24	0.27	0.25	-0.23	0.18	436051.85	748418.37	
242.46	0.80	302.49	242.46	0.83	0.76	-0.93	0.59	436052.36	748417.67	
336.68	0.36	324.12	336.67	1.49	1.35	-1.65	0.51	436052.95	748416.95	
430.90	0.70	313.53	430.89	2.17	1.99	-2.25	0.37	436053.59	748416.35	
525.12	0.33	321.42	525.10	2.82	2.60	-2.83	0.40	436054.20	748415.77	
619.34	1.21	337.88	619.31	4.00	3.73	-3.38	0.95	436055.33	748415.22	
713.56	0.69	307.03	713.52	5.33	4.99	-4.20	0.76	436056.59	748414.40	
807.78	0.42	302.43	807.74	5.91	5.52	-4.95	0.29	436057.12	748413.65	
902.00	0.36	205.15	901.95	5.87	5.44	-5.36	0.62	436057.04	748413.24	
996.22	0.32	158.20	996.17	5.36	4.93	-5.39	0.29	436056.53	748413.21	
1090.44	0.72	106.88	1090.39	4.89	4.51	-4.73	0.61	436056.11	748413.87	
1184.66	0.73	150.75	1184.60	4.12	3.81	-3.87	0.57	436055.41	748414.73	
1278.88	0.90	125.55	1278.81	3.10	2.86	-2.97	0.42	436054.46	748415.63	
1373.10	0.98	139.89	1373.02	1.96	1.81	-1.85	0.26	436053.41	748416.75	
1467.32	1.04	116.33	1467.23	0.86	0.82	-0.57	0.44	436052.42	748418.03	
1561.54	1.14	133.00	1561.43	-0.27	-0.20	0.88	0.35	436051.40	748419.48	
1655.76	0.40	78.89	1655.64	-0.93	-0.78	1.89	1.02	436050.82	748420.49	
1749.98	0.32	42.48	1749.86	-0.72	-0.52	2.39	0.25	436051.08	748420.99	
1844.20	0.19	5.09	1844.08	-0.38	-0.17	2.59	0.22	436051.43	748421.19	
1938.42	0.22	353.10	1938.30	-0.05	0.17	2.58	0.06	436051.77	748421.18	
2032.64	0.23	23.75	2032.52	0.30	0.52	2.63	0.13	436052.12	748421.23	
2126.86	0.25	353.91	2126.74	0.67	0.90	2.69	0.13	436052.50	748421.29	
2221.08	0.29	7.90	2220.96	1.11	1.34	2.70	0.08	436052.94	748421.30	
2315.30	0.36	20.72	2315.17	1.61	1.85	2.83	0.11	436053.45	748421.43	
2409.52	0.42	23.16	2409.39	2.18	2.44	3.08	0.07	436054.04	748421.68	
2503.74	0.54	33.77	2503.61	2.83	3.13	3.46	0.16	436054.73	748422.06	
2597.96	0.65	47.50	2597.82	3.51	3.86	4.10	0.19	436055.46	748422.70	
2692.18	0.34	185.92	2692.04	3.56	3.94	4.46	0.99	436055.54	748423.06	
2786.40	0.69	201.25	2786.26	2.77	3.14	4.23	0.40	436054.74	748422.83	
2880.62	0.57	195.01	2880.47	1.82	2.16	3.90	0.15	436053.76	748422.50	
2974.84	0.52	187.50	2974.69	0.97	1.28	3.73	0.09	436052.88	748422.33	
3069.06	0.65	214.95	3068.90	0.14	0.42	3.36	0.32	436052.02	748421.96	
3163.28	0.72	229.00	3163.12	-0.62	-0.41	2.61	0.19	436051.19	748421.21	
3257.50	0.73	228.20	3257.33	-1.34	-1.20	1.72	0.02	436050.40	748420.32	
3351.72	0.71	225.64	3351.54	-2.07	-2.01	0.85	0.04	436049.59	748419.45	
3445.94	0.70	231.81	3445.75	-2.76	-2.77	-0.02	0.08	436048.83	748418.58	
3540.16	0.91	228.79	3539.96	-3.52	-3.62	-1.03	0.23	436047.98	748417.57	
3634.38	0.99	229.75	3634.17	-4.44	-4.64	-2.22	0.09	436046.96	748416.38	
3728.60	0.57	280.48	3728.38	-4.79	-5.08	-3.30	0.82	436046.52	748415.30	
3822.82	0.56	286.17	3822.60	-4.50	-4.86	-4.20	0.06	436046.74	748414.40	
3917.04	0.60	311.41	3916.81	-3.98	-4.41	-5.02	0.27	436047.19	748413.58	
4011.26	0.56	315.87	4011.03	-3.27	-3.75	-5.71	0.06	436047.85	748412.89	
4105.48	0.63	318.17	4105.24	-2.50	-3.04	-6.37	0.08	436048.56	748412.23	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
ID (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (%/100US ft)	Borthing (US ft)	Fasting (US ft)	Comment
4199.70	0.43	322.12	4199.46	-1.79	-2.37	-6.93	0.22	436049.23	748411.67	
4293.92	0.50	88.39	4293.68	-1.51	-2.08	-6.74	0.88	436049.52	748411.86	
4388.14	0.92	114.52	4387.89	-1.91	-2.38	-5.64	0.55	436049.22	748412.96	
4482.36	0.72	161.21	4482.10	-2.85	-3.26	-4.76	0.72	436048.34	748413.84	
4576.58	1.53	169.79	4576.30	-4.68	-5.06	-4.35	0.88	436046.54	748414.25	
4670.80	1.54	167.02	4670.49	-7.18	-7.53	-3.84	0.08	436044.07	748414.76	
4765.02	0.90	188.06	4764.69	-9.16	-9.49	-3.66	0.82	436042.11	748414.94	
4859.24	0.72	201.42	4858.90	-10.41	-10.78	-3.98	0.28	436040.82	748414.62	
4953.46	0.86	219.30	4953.11	-11.45	-11.88	-4.64	0.30	436039.72	748413.96	
5047.68	3.13	230.15	5047.27	-13.44	-14.07	-7.07	2.43	436037.53	748411.53	
5141.90	4.40	237.42	5141.28	-16.60	-17.67	-12.09	1.44	436033.93	748406.51	
5236.12	5.40	237.71	5235.16	-20.34	-21.98	-18.88	1.06	436029.62	748399.72	
5330.34	5.84	242.22	5328.92	-24.26	-26.58	-26.87	0.66	436025.02	748391.73	
5424.56	6.04	244.69	5422.64	-27.87	-30.94	-35.59	0.34	436020.66	748383.01	
5518.78	6.07	240.49	5516.33	-31.69	-35.51	-44.41	0.47	436016.09	748374.19	
5613.00	6.42	239.26	5609.99	-36.09	-40.66	-53.27	0.40	436010.94	748365.33	
5707.22	6.34	236.23	5703.63	-40.91	-46.24	-62.12	0.37	436005.36	748356.48	
5801.44	6.12	238.69	5797.30	-45.68	-51.74	-70.74	0.37	435999.86	748347.86	
5895.66	6.13	239.70	5890.98	-50.09	-56.89	-79.37	0.11	435994.71	748339.23	
5989.88	6.73	239.01	5984.60	-54.70	-62.27	-88.45	0.64	435989.33	748330.15	
6084.10	7.99	227.22	6078.05	-61.17	-69.56	-97.99	2.08	435982.04	748320.61	
6178.32	8.07	241.10	6171.36	-67.91	-77.21	-108.59	2.05	435974.39	748310.01	
6272.54	8.64	242.53	6264.58	-73.34	-83.67	-120.66	0.64	435967.93	748297.94	
6366.76	9.21	243.08	6357.65	-78.92	-90.35	-133.66	0.61	435961.25	748284.94	
6460.98	9.15	235.13	6450.67	-85.52	-98.04	-146.53	1.35	435953.56	748272.07	
6555.20	8.61	232.42	6543.76	-93.10	-106.63	-158.27	0.72	435944.97	748260.33	
6649.42	8.14	230.89	6636.98	-100.68	-115.14	-169.03	0.55	435936.46	748249.57	
6743.64	7.27	233.00	6730.35	-107.62	-122.93	-178.97	0.97	435928.67	748239.63	
6837.86	7.33	233.26	6823.80	-113.99	-130.12	-188.55	0.07	435921.48	748230.05	
6932.08	7.36	235.87	6917.25	-120.13	-137.10	-198.36	0.36	435914.50	748220.24	
7026.30	8.02	234.25	7010.62	-126.47	-144.32	-208.69	0.74	435907.28	748209.91	
7120.52	7.94	235.23	7103.93	-133.11	-151.87	-219.37	0.17	435899.73	748199.23	
7214.74	7.89	238.57	7197.25	-139.26	-158.96	-230.23	0.49	435892.64	748188.37	
7308.96	8.03	239.48	7290.56	-145.02	-165.67	-241.42	0.20	435885.93	748177.18	
7403.18	7.82	235.30	7383.89	-151.08	-172.66	-252.36	0.65	435878.94	748166.24	
7497.40	7.47	234.10	7477.27	-157.44	-179.90	-262.59	0.41	435871.70	748156.01	
7591.62	7.46	233.32	7570.69	-163.84	-187.15	-272.45	0.11	435864.45	748146.15	
7685.84	7.43	232.82	7664.12	-170.34	-194.48	-282.21	0.08	435857.12	748136.39	
7780.06	7.30	231.26	7757.56	-176.95	-201.91	-291.74	0.25	435849.69	748126.86	
7874.28	7.36	227.98	7851.01	-183.95	-209.70	-300.89	0.45	435841.90	748117.71	
7968.50	8.08	239.50	7944.38	-190.48	-217.10	-311.08	1.81	435834.50	748107.52	
8062.72	8.49	235.22	8037.62	-196.83	-224.43	-322.50	0.79	435827.17	748096.10	
8156.94	8.68	236.38	8130.78	-203.74	-232.33	-334.13	0.27	435819.27	748084.47	
8251.16	9.10	247.65	8223.88	-209.42	-239.10	-346.94	1.90	435812.50	748071.66	
8345.38	9.18	236.33	8316.91	-215.30	-246.10	-360.09	1.91	435805.50	748058.51	
8439.60	9.43	234.70	8409.89	-222.86	-254.73	-372.64	0.39	435796.87	748045.96	
8533.82	9.49	233.04	8502.83	-230.92	-263.86	-385.15	0.30	435787.74	748033.45	
8628.04	9.39	233.61	8595.77	-239.08	-273.09	-397.54	0.15	435778.51	748021.06	
8722.26	9.68	232.76	8688.69	-247.37	-282.44	-410.04	0.34	435769.16	748008.56	
8816.48	8.81	235.23	8781.68	-255.23	-291.35	-422.27	1.01	435760.25	747996.33	
8910.70	7.44	236.01	8874.96	-261.81	-298.88	-433.26	1.46	435752.72	747985.34	
9004.92	7.19	239.06	8968.41	-267.39	-305.32	-443.37	0.49	435746.28	747975.23	
9099.14	6.78	238.91	9061.93	-272.46	-311.22	-453.19	0.44	435740.38	747965.41	
9193.36	6.60	239.06	9155.51	-277.31	-316.88	-462.60	0.19	435734.72	747956.00	
9287.58	6.89	240.05	9249.08	-282.10	-322.48	-472.14	0.33	435729.12	747946.46	
9381.80	6.54	238.62	9342.65	-286.91	-328.10	-481.62	0.41	435723.50	747936.98	
9476.02	6.65	239.78	9436.25	-291.66	-333.64	-490.91	0.18	435717.96	747927.69	
9570.24	7.19	237.75	9529.78	-296.73	-339.53	-500.61	0.63	435712.07	747917.99	
9664.46	8.04	235.43	9623.17	-302.72	-346.42	-511.03	0.96	435705.18	747907.57	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	H.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9758.68	7.64	236.96	9716.51	-308.96	-353.57	-521.70	0.48	435698.03	747896.90	First WFT MWD Svy
9852.90	7.81	229.78	9809.88	-315.64	-361.12	-531.84	1.04	435690.48	747886.76	
9947.12	6.64	233.81	9903.35	-322.19	-368.47	-541.13	1.35	435683.13	747877.47	
10041.34	5.53	230.78	9997.03	-327.60	-374.56	-549.04	1.23	435677.04	747869.56	
10135.56	4.17	245.96	10090.92	-331.30	-378.82	-555.69	1.97	435672.78	747862.91	
10229.78	2.85	244.85	10184.96	-333.25	-381.21	-560.93	1.40	435670.39	747857.67	
10324.00	2.55	245.43	10279.07	-334.77	-383.08	-564.96	0.32	435668.52	747853.64	
10446.00	2.33	241.37	10400.96	-336.70	-385.40	-569.61	0.23	435666.20	747848.99	
10493.00	1.46	280.16	10447.94	-336.93	-385.75	-571.03	3.20	435665.85	747847.57	
10541.00	3.98	4.45	10495.89	-335.13	-383.98	-571.51	8.54	435667.62	747847.09	
10588.00	9.05	9.09	10542.58	-329.92	-378.70	-570.80	10.84	435672.90	747847.80	
10635.00	13.51	8.32	10588.66	-320.98	-369.61	-569.42	9.49	435681.99	747849.18	
10682.00	18.78	5.36	10633.79	-308.18	-356.64	-567.91	11.35	435694.96	747850.69	
10730.00	23.81	3.41	10678.50	-290.97	-339.26	-566.62	10.58	435712.34	747851.98	
10777.00	29.29	3.84	10720.52	-270.20	-318.31	-565.28	11.67	435733.29	747853.32	
10824.00	34.15	4.70	10760.49	-245.80	-293.67	-563.43	10.38	435757.93	747855.17	
10872.00	40.89	5.61	10798.54	-217.03	-264.58	-560.79	14.09	435787.02	747857.81	
10919.00	47.89	3.86	10832.11	-184.62	-231.83	-558.10	15.12	435819.77	747860.50	
10966.00	56.49	0.27	10860.90	-147.79	-194.77	-556.84	19.26	435856.83	747861.76	
11013.00	65.00	357.04	10883.85	-106.90	-153.82	-557.85	19.07	435897.78	747860.75	
11060.00	71.40	355.18	10901.30	-63.29	-110.31	-560.82	14.10	435941.29	747857.78	
11108.00	74.70	355.70	10915.29	-17.38	-64.54	-564.47	6.95	435987.06	747854.13	
11155.00	78.08	358.78	10926.35	28.26	-18.93	-566.66	9.61	436032.67	747851.94	
11202.00	81.79	359.86	10934.56	74.41	27.34	-567.20	8.21	436078.94	747851.40	
11235.00	84.11	0.13	10938.61	107.04	60.09	-567.21	7.08	436111.69	747851.39	
11329.00	88.65	0.13	10944.55	200.49	153.87	-566.99	4.83	436205.47	747851.61	
11424.00	89.86	359.97	10945.78	295.14	248.86	-566.91	1.28	436300.46	747851.69	
11518.00	91.27	359.15	10944.86	388.87	342.85	-567.63	1.74	436394.45	747850.97	
11613.00	90.69	357.20	10943.23	483.72	437.79	-570.66	2.14	436489.39	747847.94	
11707.00	90.35	357.80	10942.38	577.64	531.69	-574.76	0.73	436583.29	747843.84	
11802.00	89.07	358.38	10942.86	672.52	626.64	-577.92	1.48	436678.24	747840.68	
11896.00	88.37	358.91	10944.96	766.33	720.58	-580.15	0.93	436772.18	747838.45	
11991.00	89.42	358.51	10946.79	861.14	815.54	-582.29	1.18	436867.14	747836.31	
12085.00	90.68	358.46	10946.71	954.98	909.51	-584.77	1.34	436961.11	747833.83	
12179.00	90.33	359.07	10945.88	1048.80	1003.48	-586.80	0.75	437055.08	747831.80	
12274.00	88.93	1.16	10946.49	1143.45	1098.47	-586.61	2.65	437150.07	747831.99	
12368.00	89.49	1.84	10947.79	1236.87	1192.43	-584.15	0.94	437244.03	747834.45	
12462.00	88.65	359.53	10949.31	1330.43	1286.40	-583.02	2.61	437338.00	747835.58	
12556.00	89.42	1.97	10950.90	1423.97	1380.37	-581.79	2.72	437431.97	747836.81	
12650.00	90.54	2.12	10950.93	1517.31	1474.31	-578.44	1.20	437525.91	747840.16	
12745.00	89.63	0.49	10950.79	1611.77	1569.28	-576.27	1.97	437620.88	747842.33	
12839.00	90.96	0.82	10950.31	1705.34	1663.27	-575.20	1.46	437714.87	747843.40	
12933.00	89.42	359.55	10949.99	1798.99	1757.27	-574.90	2.12	437808.87	747843.70	
13027.00	91.03	359.68	10949.63	1892.71	1851.26	-575.53	1.72	437902.86	747843.07	
13122.00	89.63	358.97	10949.08	1987.46	1946.25	-576.65	1.65	437997.85	747841.95	
13216.00	90.89	358.79	10948.65	2081.27	2040.23	-578.48	1.35	438091.83	747840.12	
13311.00	88.65	357.47	10949.03	2176.14	2135.17	-581.58	2.74	438186.77	747837.02	
13405.00	89.70	357.65	10950.39	2270.05	2229.07	-585.58	1.13	438280.67	747833.02	
13499.00	91.38	357.87	10949.50	2363.95	2322.99	-589.26	1.80	438374.59	747829.34	
13594.00	89.28	358.82	10948.95	2458.80	2417.95	-592.00	2.43	438469.55	747826.60	
13688.00	89.07	358.35	10950.31	2552.63	2511.91	-594.32	0.55	438563.51	747824.28	
13782.00	90.12	358.37	10950.97	2646.49	2605.87	-597.01	1.12	438657.47	747821.59	
13877.00	90.12	357.99	10950.77	2741.36	2700.82	-600.03	0.40	438752.42	747818.57	
13971.00	89.14	1.25	10951.38	2835.07	2794.80	-600.65	3.62	438846.40	747817.95	
14066.00	88.93	1.39	10952.98	2929.52	2889.76	-598.47	0.27	438941.36	747820.13	
14160.00	90.12	1.47	10953.76	3022.96	2983.73	-596.12	1.27	439035.33	747822.48	
14255.00	90.19	1.07	10953.50	3117.44	3078.70	-594.01	0.43	439130.30	747824.59	
14349.00	91.31	1.17	10952.27	3210.93	3172.68	-592.18	1.20	439224.28	747826.42	

5D Survey Report

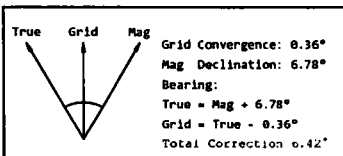
Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment	
14443.00	90.33	1.24	10950.93	3304.41	3266.64	-590.20	1.05	439318.24	747828.40		
14537.00	89.77	1.82	10950.84	3397.84	3360.61	-587.69	0.86	439412.21	747830.91		
14632.00	90.40	359.77	10950.70	3492.39	3455.59	-586.37	2.26	439507.19	747832.23		
14726.00	91.03	359.30	10949.53	3586.11	3549.58	-587.14	0.84	439601.18	747831.46		
14820.00	89.77	358.69	10948.87	3679.91	3643.56	-588.78	1.49	439695.16	747829.82		
14914.00	90.89	358.47	10948.33	3773.74	3737.53	-591.11	1.21	439789.13	747827.49		
15009.00	89.35	0.10	10948.13	3868.50	3832.52	-592.30	2.36	439884.12	747826.30		
15103.00	90.40	0.05	10948.34	3962.16	3926.52	-592.18	1.12	439978.12	747826.42		
15198.00	87.88	359.41	10949.76	4056.85	4021.50	-592.62	2.74	440073.10	747825.98		
15292.00	88.65	359.66	10952.61	4150.54	4115.45	-593.39	0.86	440167.05	747825.21		
15387.00	89.70	359.23	10953.98	4245.27	4210.43	-594.31	1.19	440262.03	747824.29		
15481.00	90.75	359.45	10953.61	4339.03	4304.43	-595.39	1.14	440356.03	747823.21		
15576.00	89.84	359.63	10953.12	4433.76	4399.42	-596.15	0.98	440451.02	747822.45		
15670.00	90.12	359.84	10953.15	4527.47	4493.42	-596.59	0.37	440545.02	747822.01		
15765.00	90.96	0.01	10952.26	4622.14	4588.41	-596.71	0.90	440640.01	747821.89		
15860.00	89.98	358.52	10951.48	4716.90	4683.40	-597.93	1.88	440735.00	747820.67		
15954.00	90.54	358.46	10951.05	4810.75	4777.37	-600.41	0.60	440828.97	747818.19		
16049.00	88.58	357.87	10951.78	4905.61	4872.31	-603.45	2.15	440923.91	747815.15		
16144.00	90.19	358.05	10952.80	5000.50	4967.24	-606.83	1.71	441018.84	747811.77		
16238.00	91.24	357.84	10951.63	5094.38	5061.17	-610.20	1.14	441112.77	747808.40		
16333.00	89.77	358.19	10950.79	5189.26	5156.11	-613.49	1.59	441207.71	747805.11		
16427.00	89.70	359.48	10951.23	5283.08	5250.08	-615.40	1.37	441301.68	747803.20		
16521.00	90.12	0.45	10951.37	5376.75	5344.08	-615.46	1.12	441395.68	747803.14		
16616.00	90.33	359.91	10951.00	5471.40	5439.08	-615.16	0.61	441490.68	747803.44		
16710.00	92.15	0.50	10948.97	5565.02	5533.05	-614.82	2.04	441584.65	747803.78		
16804.00	93.27	1.30	10944.52	5658.45	5626.94	-613.35	1.46	441678.54	747805.25		
16899.00	91.45	0.91	10940.61	5752.87	5721.83	-611.52	1.96	441773.43	747807.08		
16993.00	91.80	0.90	10937.94	5846.37	5815.78	-610.04	0.37	441867.38	747808.56		
17088.00	92.43	0.95	10934.44	5940.84	5910.71	-608.50	0.67	441962.31	747810.10		
17182.00	90.26	0.44	10932.23	6034.38	6004.67	-607.36	2.37	442056.27	747811.24		
17277.00	90.26	0.20	10931.80	6129.00	6099.66	-606.83	0.25	442151.26	747811.77		
17371.00	91.17	359.85	10930.63	6222.66	6193.66	-606.79	1.04	442245.26	747811.81		
17466.00	88.58	359.64	10930.83	6317.36	6288.65	-607.21	2.74	442340.25	747811.39		
17560.00	88.79	359.54	10932.99	6411.06	6382.62	-607.89	0.25	442434.22	747810.71		
17655.00	89.07	359.00	10934.77	6505.81	6477.60	-609.10	0.64	442529.20	747809.50		
17749.00	89.63	359.06	10935.83	6599.60	6571.58	-610.69	0.60	442623.18	747807.91		
17844.00	92.71	359.43	10933.89	6694.33	6666.54	-611.94	3.27	442718.14	747806.66		
17938.00	93.06	359.47	10929.16	6787.96	6760.41	-612.84	0.37	442812.01	747805.76		
18033.00	91.45	359.46	10925.42	6882.62	6855.33	-613.73	1.69	442906.93	747804.87		
18127.00	92.08	359.64	10922.53	6976.31	6949.28	-614.47	0.70	443000.88	747804.13		
18221.00	90.89	359.25	10920.09	7070.02	7043.25	-615.38	1.33	443094.85	747803.22		
18316.00	91.31	359.31	10918.27	7164.77	7138.22	-616.57	0.45	443189.82	747802.03		
18411.00	91.66	359.26	10915.81	7259.50	7233.18	-617.75	0.37	443284.78	747800.85		
18505.00	92.01	358.87	10912.80	7353.24	7327.12	-619.29	0.56	443378.72	747799.31		
18520.00	92.01	358.88	10912.27	7368.20	7342.11	-619.58	0.07	443393.71	747799.02	Last WFT MWD Svy	
18591.00	92.01	358.88	10909.78	7439.01	7413.05	-620.97	0.00	443464.65	747797.63	TD@18591' MD / PTB	



Ghost Rider 22-15 FED COM 206H
Lea Co., New Mexico
H&P 482

Plan vs Actual

KB: 3620.00
GL: 3594.00

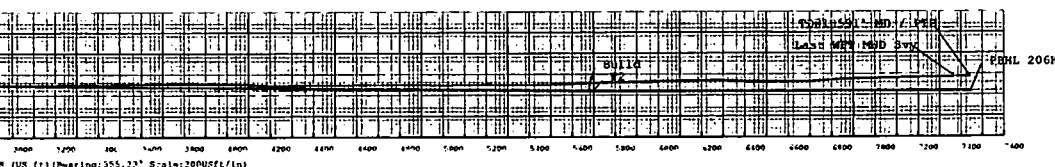
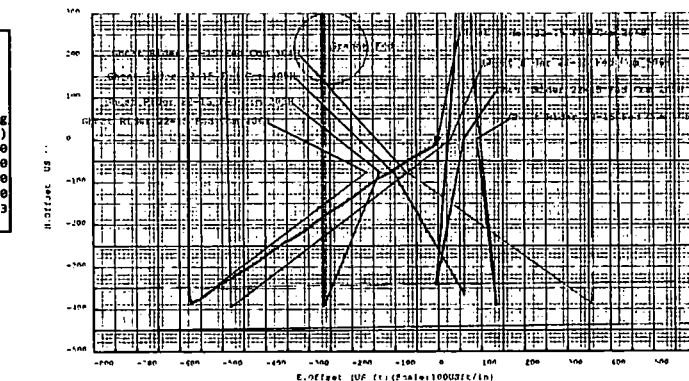


Plan Data for Ghost Rider 22-15 Fed Com 206H

Plan Point Information:										
Dogleg Severity Unit: */100.00ft										
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
10324.00	2.55	245.43	10279.07	-383.08	-564.96	435668.52	747853.64	-334.77	0.32	Tleonto VES Gyro
10490.00	2.55	245.43	10444.91	-386.15	-571.68	435665.45	747846.92	-337.28	0.00	PTB/Hold
10511.35	2.55	245.43	10466.24	-386.55	-572.54	435665.05	747846.06	-337.60	0.00	KOP
10895.78	45.00	0.65	10813.13	-246.55	-579.14	435805.05	747839.46	-197.53	12.00	Build/Turn
11270.85	90.00	359.71	10953.00	91.12	-578.55	436042.72	747840.05	138.92	12.00	Hold
13639.31	90.00	359.71	10953.00	2459.56	-590.50	438511.16	747828.10	2500.15	0.00	T1/Drop
13664.41	89.50	359.71	10953.11	2484.66	-590.63	438536.26	747827.97	2525.17	2.00	Hold
16824.05	89.50	359.71	10980.79	5644.13	-606.57	441695.73	747812.03	5675.03	0.00	Build
16849.15	90.00	359.71	10980.90	5669.23	-606.70	441720.83	747811.90	5700.05	2.00	T2
18601.24	90.00	359.71	10980.90	7421.30	-615.57	443472.90	747803.03	7446.78	0.00	PBHL 206H

Plan Data for Ghost Rider 22-15 Fed Com 206H

Target Set Information:						
Name: GR 22-15 FC 206H						
Position offsets from Slot centre						
Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting	
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	
VP	10475.50	-6855.50	-392.00	-576.00	435659.60	747842.60
T1	10953.00	-7333.00	2459.56	-590.50	438511.16	747828.10
T2	10980.90	-7360.90	5669.23	-606.70	441720.83	747811.90
BHL/HL-Plat	10980.90	-7360.90	7373.90	-615.30	443425.50	747803.30
PBHL 206H	10980.90	-7360.90	7421.30	-615.57	443472.90	747803.03



VS (US ft) Bearing: 355.23° Scale: 200USft/in

Drawing By: Ty Martin Date: 5 July 2018
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Houston, TX 77060
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